

ABSTRACT OF THE DISCLOSURE

A scramble control method allowing synchronization of scramblers and descramblers without resetting them per frame. The scramblers are simultaneously reset and the descramblers
5 are simultaneously reset. The scramblers are simultaneously initialized at a first time point and thereafter are not reset. The descramblers are simultaneously initialized after an elapse of a time period required for transferring a frame from an input interface to an appropriate output interface through the switch,
10 and thereafter the descramblers are not reset. Alternatively, a scrambler state indicating a pseudorandom pattern is generated at predetermined intervals and is sent to the scramblers and the descrambler.